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TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/081,281

DATE: 03/12/2002

TIME: 09:35:09

Input Set : N:\Crf3\RULE60\10081281.raw

Output Set: N:\CRF3\03122002\J081281.raw

SEQUENCE LISTING

1 (1) GENERAL INFORMATION:

2 (i) APPLICANT: Kindsvogel, Wayne

3 Gross, Jane A.

4 Sheppard, Paul

5 (ii) TITLE OF INVENTION: Immune Mediators and Related Methods

6 (iii) NUMBER OF SEQUENCES: 121

7 (iv) CORRESPONDENCE ADDRESS:

8 (A) ADDRESSEE: Townsend and Townsend and Crew LLP

9 (B) STREET: Two Embarcadero Center, Eighth Floor

10 (C) CITY: San Francisco

11 (D) STATE: California

12 (E) COUNTRY: USA

13 (F) ZIP: 94111-3834

14 (v) COMPUTER READABLE FORM:

15 (A) MEDIUM TYPE: Floppy disk

16 (B) COMPUTER: IBM PC compatible

17 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

18 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

19 (vi) CURRENT APPLICATION DATA:

C--> 20 (A) APPLICATION NUMBER: US/10/081,281

C--> 21 (B) FILING DATE: 20-Feb-2002

22 (C) CLASSIFICATION:

23 (vii) PRIOR APPLICATION DATA:

24 (A) APPLICATION NUMBER: US/09/261,811A

25 (B) FILING DATE: 03-Mar-1999

26 (A) APPLICATION NUMBER: US 08/480,002

27 (B) FILING DATE: 07-JUN-1995

28 (A) APPLICATION NUMBER: US 08/482,133

29 (B) FILING DATE: 07-JUN-1995

30 (A) APPLICATION NUMBER: US 08/483,241

31 (B) FILING DATE: 07-JUN-1995

32 (A) APPLICATION NUMBER: US 60/005,964

33 (B) FILING DATE: 27-OCT-1995

34 (A) APPLICATION NUMBER: US 08/657,581

35 (B) FILING DATE: 07-JUN-1996

36 (viii) ATTORNEY/AGENT INFORMATION:

37 (A) NAME: Parent, Annette S.

38 (B) REGISTRATION NUMBER: 42,058

39 (C) REFERENCE/DOCKET NUMBER: 014058-005630US

40 (ix) TELECOMMUNICATION INFORMATION:

41 (A) TELEPHONE: (415) 576-0200

42 (B) TELEFAX: (415) 576-0300

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43 (2) INFORMATION FOR SEQ ID NO: 1:
44   (i) SEQUENCE CHARACTERISTICS:
45       (A) LENGTH: 33 base pairs
46       (B) TYPE: nucleic acid
47       (C) STRANDEDNESS: single
48       (D) TOPOLOGY: linear
W--> 49   (ii) MOLECULE TYPE: DNA
50   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
51   GCGCAAGCTT GAATTCGAGC TCATGGTGTG TCT
53 (2) INFORMATION FOR SEQ ID NO: 2:
54   (i) SEQUENCE CHARACTERISTICS:
55       (A) LENGTH: 58 base pairs
56       (B) TYPE: nucleic acid
57       (C) STRANDEDNESS: single
58       (D) TOPOLOGY: linear
W--> 59   (ii) MOLECULE TYPE: DNA
60   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
61   AATTCGATAT CATGGTGTGT CTGAAGCTCC CTGGAGGCTC CTGCATGACA GCGCTGAC
63 (2) INFORMATION FOR SEQ ID NO: 3:
64   (i) SEQUENCE CHARACTERISTICS:
65       (A) LENGTH: 58 base pairs
66       (B) TYPE: nucleic acid
67       (C) STRANDEDNESS: single
68       (D) TOPOLOGY: linear
W--> 69   (ii) MOLECULE TYPE: DNA
70   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
71   CACTGTCAGC GCTGTCATGC AGGAGCCTCC AGGGAGCTTC AGACACACCA TGATATCG
73 (2) INFORMATION FOR SEQ ID NO: 4:
74   (i) SEQUENCE CHARACTERISTICS:
75       (A) LENGTH: 60 base pairs
76       (B) TYPE: nucleic acid
77       (C) STRANDEDNESS: single
78       (D) TOPOLOGY: linear
W--> 79   (ii) MOLECULE TYPE: DNA
80   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
81   ACTTCTTTAA AAACATCGTG ACTCCGCGTA CACCCCGGCC ATCGGGAGGC GGGTCAGGTG
83 (2) INFORMATION FOR SEQ ID NO: 5:
84   (i) SEQUENCE CHARACTERISTICS:
85       (A) LENGTH: 60 base pairs
86       (B) TYPE: nucleic acid
87       (C) STRANDEDNESS: single
88       (D) TOPOLOGY: linear
W--> 89   (ii) MOLECULE TYPE: DNA
90   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
91   GATCCACCTG ACCCGCCTCC CGATGGCGGG GGTGTACGCG GAGTCACGAT GTTTTTAAAG
93 (2) INFORMATION FOR SEQ ID NO: 6:
94   (i) SEQUENCE CHARACTERISTICS:
95       (A) LENGTH: 59 base pairs
96       (B) TYPE: nucleic acid

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97      (C) STRANDEDNESS: single
98      (D) TOPOLOGY: linear
W--> 99      (ii) MOLECULE TYPE: DNA
100     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
101     AGTGACACTG ATGGTGCTGA GCTCCCCACT GGCTTTGTCT GACGAAAACC CAGTAGTGC      59
103 (2) INFORMATION FOR SEQ ID NO: 7:
104     (i) SEQUENCE CHARACTERISTICS:
105         (A) LENGTH: 59 base pairs
106         (B) TYPE: nucleic acid
107         (C) STRANDEDNESS: single
108         (D) TOPOLOGY: linear
W--> 109     (ii) MOLECULE TYPE: DNA
110     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
111     AAGTGCACTA CTGGGTTTTC GTCAGACAAA GCCAGTGGGG AGCTCAGCAC CATCAGTGT      59
113 (2) INFORMATION FOR SEQ ID NO: 8:
114     (i) SEQUENCE CHARACTERISTICS:
115         (A) LENGTH: 27 base pairs
116         (B) TYPE: nucleic acid
117         (C) STRANDEDNESS: single
118         (D) TOPOLOGY: linear
W--> 119     (ii) MOLECULE TYPE: DNA
120     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
121     GCCGGCTGAT GCTCCCCGCT GCACTGT      27
123 (2) INFORMATION FOR SEQ ID NO: 9:
124     (i) SEQUENCE CHARACTERISTICS:
125         (A) LENGTH: 25 base pairs
126         (B) TYPE: nucleic acid
127         (C) STRANDEDNESS: single
128         (D) TOPOLOGY: linear
W--> 129     (ii) MOLECULE TYPE: DNA
130     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
131     GCGCTCTAGA TCATATAGTT GGAGC      25
133 (2) INFORMATION FOR SEQ ID NO: 10:
134     (i) SEQUENCE CHARACTERISTICS:
135         (A) LENGTH: 37 base pairs
136         (B) TYPE: nucleic acid
137         (C) STRANDEDNESS: single
138         (D) TOPOLOGY: linear
W--> 139     (ii) MOLECULE TYPE: DNA
140     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
141     CCAGGGTCTA GATCATAAAG GCCCTGGGTG TCTGGAG      37
143 (2) INFORMATION FOR SEQ ID NO: 11:
144     (i) SEQUENCE CHARACTERISTICS:
145         (A) LENGTH: 37 base pairs
146         (B) TYPE: nucleic acid
147         (C) STRANDEDNESS: single
148         (D) TOPOLOGY: linear
W--> 149     (ii) MOLECULE TYPE: DNA
150     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

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151      CGAGGAATTC GCAGAGACCT CCCAGAGACC AGGATCC                               37
153 (2) INFORMATION FOR SEQ ID NO: 12:
154      (i) SEQUENCE CHARACTERISTICS:
155          (A) LENGTH: 37 base pairs
156          (B) TYPE: nucleic acid
157          (C) STRANDEDNESS: single
158          (D) TOPOLOGY: linear
W--> 159      (ii) MOLECULE TYPE: DNA
160          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
161      AACACTCTAG ATCACTGCAG GAGCCCTGCT GGAGGAG                               37
163 (2) INFORMATION FOR SEQ ID NO: 13:
164      (i) SEQUENCE CHARACTERISTICS:
165          (A) LENGTH: 37 base pairs
166          (B) TYPE: nucleic acid
167          (C) STRANDEDNESS: single
168          (D) TOPOLOGY: linear
W--> 169      (ii) MOLECULE TYPE: DNA
170          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
171      CGAGGAATTC TGAGTCCTGG TGACTGCCAT TACCTGT                               37
173 (2) INFORMATION FOR SEQ ID NO: 14:
174      (i) SEQUENCE CHARACTERISTICS:
175          (A) LENGTH: 30 base pairs
176          (B) TYPE: nucleic acid
177          (C) STRANDEDNESS: single
178          (D) TOPOLOGY: linear
W--> 179      (ii) MOLECULE TYPE: DNA
180          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
181      GGAGCATCAG CCGGCATCAA AGAAGAACAT                                       30
183 (2) INFORMATION FOR SEQ ID NO: 15:
184      (i) SEQUENCE CHARACTERISTICS:
185          (A) LENGTH: 111 base pairs
186          (B) TYPE: nucleic acid
187          (C) STRANDEDNESS: single
188          (D) TOPOLOGY: linear
W--> 189      (ii) MOLECULE TYPE: DNA
190          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
191      GAGGATGATT AAATGAGTCG CCTCTCGAAG GTGGCTCCAG TGATTAAAGC CAGAATGATG      60
192      GAGTATGGAA CCACAGGAGG TGGAGGCTCT GGAGGTGGAG GCTCAGGAGG A             111
194 (2) INFORMATION FOR SEQ ID NO: 16:
195      (i) SEQUENCE CHARACTERISTICS:
196          (A) LENGTH: 39 base pairs
197          (B) TYPE: nucleic acid
198          (C) STRANDEDNESS: single
199          (D) TOPOLOGY: linear
W--> 200      (ii) MOLECULE TYPE: DNA
201          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
202      GGAGGCTCAG GAGGAGGTGG GTCCGGAGAC TCCGAAAGG                             39
204 (2) INFORMATION FOR SEQ ID NO: 17:
205      (i) SEQUENCE CHARACTERISTICS:

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Input Set : N:\Crf3\RULE60\10081281.raw

Output Set: N:\CRF3\03122002\J081281.raw

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206      (A) LENGTH: 32 base pairs
207      (B) TYPE: nucleic acid
208      (C) STRANDEDNESS: single
209      (D) TOPOLOGY: linear
W--> 210      (ii) MOLECULE TYPE: DNA
211      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
212      CGCGGGATCC GATCGTGGAG GATGATTAAA TG 32
214 (2) INFORMATION FOR SEQ ID NO: 18:
215      (i) SEQUENCE CHARACTERISTICS:
216          (A) LENGTH: 30 base pairs
217          (B) TYPE: nucleic acid
218          (C) STRANDEDNESS: single
219          (D) TOPOLOGY: linear
W--> 220      (ii) MOLECULE TYPE: DNA
221      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
222      GCCACCTGAT CCACCCCGCA GGGAGGTGGG 30
224 (2) INFORMATION FOR SEQ ID NO: 19:
225      (i) SEQUENCE CHARACTERISTICS:
226          (A) LENGTH: 30 base pairs
227          (B) TYPE: nucleic acid
228          (C) STRANDEDNESS: single
229          (D) TOPOLOGY: linear
W--> 230      (ii) MOLECULE TYPE: DNA
231      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
232      GGTGGATCAG GTGGCGAAGA CGACATTGAG 30
234 (2) INFORMATION FOR SEQ ID NO: 20:
235      (i) SEQUENCE CHARACTERISTICS:
236          (A) LENGTH: 30 base pairs
237          (B) TYPE: nucleic acid
238          (C) STRANDEDNESS: single
239          (D) TOPOLOGY: linear
W--> 240      (ii) MOLECULE TYPE: DNA
241      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
242      CCGGAATTCT TAACTAGTAG CTGGGGTGAA 30
244 (2) INFORMATION FOR SEQ ID NO: 21:
245      (i) SEQUENCE CHARACTERISTICS:
246          (A) LENGTH: 30 base pairs
247          (B) TYPE: nucleic acid
248          (C) STRANDEDNESS: single
249          (D) TOPOLOGY: linear
W--> 250      (ii) MOLECULE TYPE: DNA
251      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
252      CCGGAATTCT TAACTAGTAG CTGGGGTGAA 30
254 (2) INFORMATION FOR SEQ ID NO: 22:
255      (i) SEQUENCE CHARACTERISTICS:
256          (A) LENGTH: 30 base pairs
257          (B) TYPE: nucleic acid
258          (C) STRANDEDNESS: single
259          (D) TOPOLOGY: linear

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Input Set : N:\CrF3\RULE60\10081281.raw

Output Set: N:\CRF3\03122002\J081281.raw

L:20 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:21 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:49 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:59 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
L:69 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3
L:79 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4
L:89 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:99 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6
L:109 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:119 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:129 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:139 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10
L:149 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:159 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12
L:169 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13
L:179 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14
L:189 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15
L:200 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16
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L:230 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=19
L:240 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=20
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L:260 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=22
L:270 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23
L:281 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24
L:291 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25
L:302 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=26
L:313 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27
L:324 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28
L:404 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35
L:550 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=48
L:560 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=49
L:579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64

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L:824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:888 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:1000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76
L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:1032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78
L:1048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:1066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:1081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:1097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:1113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83
L:1129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84
L:1145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85
L:1161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86
L:1177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87
L:1193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
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L:1261 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=92
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L:2421 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=120